

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-567 Rev. F,
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-567 Rev. 3
REF. TCCA STC: SH92-18
REF. FAA STC: SH989NE
REF. EASA STC: EASA.IM.R.S.01561

1.0 PURPOSE:

It has come to DART's attention that on some aircraft, it is not possible to install the Liferaft Pull Cable Handle (Single Lever Assy), P/N 624.9103, in the aircraft as specified in II350-600 per STC SR00470LA because it is in the same location as the Vertical Reference Window.

The purpose of this DART Service Instruction is to provide parts and instructions for installation of the Right Hand Liferaft Pull Cable Handle P/N 624.9103 and Liferaft Pull Cable P/N 624.3805 in the new designated location as an alternate to the original handle location as specified in FAA STC SR00470LA. All parts needed to complete the modification are included in the original emergency float kit purchase.

2.0 PROCEDURE:

1. Remove the Threaded Base (F/N K) from the Single Lever Assy (F/N 24) and retain hardware for reuse (Figure 2).
2. Align the the Single Lever Assy (F/N 24) in the location specified in Figure 1, located approximately at STA 51.00, RBL 6.00.
NOTE: The handle must be able to travel a minimum of 45 degrees. If the handle travel is impeded, then adjust the handle location.
3. Mark the position of the eight holes on the top of the Single Lever Assy (F/N 24) and match drill through the cabin floor. Deburr edges and apply alodine as needed.
4. Attach the Single Lever Assy (F/N 24) to the floor using the Bolts (F/N 78), Nuts (F/N 81), and Washers (F/N 84) and torque to 25 in-lbs.
5. Use the Lever Arm (F/N J) as a guide and drill a 0.400" thru hole in the cockpit floor where the Pull Cable will attach. Deburr edges and apply alodine as needed.
6. Thread the Pull Cable (F/N 53) into the Threaded Base (F/N K) until it is flush with the face (Figure 2).
7. Attach the base to the lever assembly using the retained hardware.
8. Torque the two nuts on the end of the Pull Cable (F/N 53) to 50-60 in-lbs.
9. Remove the Cable Panel (F/N L) from the Lever Arm (F/N J) and retain the hardware for reuse (Figure 3).
10. Route swaged end of the cable through the groove in the Lever Arm (F/N J).
11. Reattach the Cable Panel (F/N L) using the retained hardware.
12. Route the pull cable along the helicopter longeron line using qty. 4 Tywraps (F/N 90). Reference Figure 1 and Figures 4 through 13.
13. Complete the installation of the pull cable assembly as specified in II350-600.

NOTE: DART will provide an empty liferaft reservoir assembly for a dry fire pull test in order to verify the liferaft pull cable routing. Make sure that the reservoir gauge reads zero psi before proceeding.

14. Replace the fully charged liferaft reservoir with the empty liferaft reservoir.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 20.01.07
CERT. NO.: SH92-18
ISSUE NO.: 6

A	NEW ISSUE	CZ	20.01.07
REV.	DESCRIPTION	BY	DATE
DESIGN	CZ	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	CZ		
CHECKED	JB	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9845	SHEET 1 OF 13
APPROVED	JB	TITLE	SCALE
DE APPR.	DS	ALTERNATE LIFERAFT PULL CABLE HANDLE	NTS
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15. Rig the empty liferaft reservoir valve as specified in II350-600 per STC SR00470LA.
16. Check the pull cable for the following items along the alternate pull cable route:
 1. Bend radius is 3.0" (7.62cm) or greater.
 2. No excess slack in the system.
17. Attach zip ties to the pull cable handle.
18. Remove the safety pin from the empty liferaft reservoir and the pull cable handle.
19. Using a pull force gauge, attach the hook to the zip tie on the handle and pull until there is no more tension at the handle. Be prepared for a sudden drop in resistance as the liferaft valve is actuated.
20. All four of the following requirements should be fulfilled after the test at the liferaft handle:
 1. There is an ample amount of travel at the handle.
 2. There is minimal slack in the liferaft pull cable.
 3. There are no radius bends less than 3.0" (7.62cm).
 4. The pull force is below 30lbs (13.61 kg) at the handle.
21. Reset the pull cable handle back into its original position and reinstall the safety pin.

NOTE: When resetting the pull cable handle, have one person pull the cable at the reservoir end as the other guides the handle back to position.
22. If the pull force test is successful, re-install the fully charged reservoir as specified in II350-600 per STC SR00470LA.

WARNING: BE SURE THE SAFETY PIN IS INSTALLED IN THE RESERVOIR PRIOR TO PROCEEDING.

FAILURE TO DO SO COULD LEAD TO SERIOUS INJURY.
23. Rig the fully charged reservoir as specified in II350-600 per STC SR00470LA.
24. Update the Aircraft Logbook to indicate that the aircraft has been modified per DSI 9845.

3.0 PARTS LIST

NOTE: For reference. All parts included in 20326-700/-1300 kit.

F/N	QTY	PART NUMBER	DESCRIPTION
24	1	624.9103	Single Lever Assembly
53	1	624.3805	Pull Cable
78	4	601.0720	Bolt (AN3C5A)
81	4	601.0789	Nut (MS21043-3)
84	8	601.0774	Washer (NAS1149C0363R)
90	4	600.0646	Tywrap (MS3367-3)

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DE APPR.	DS	PULL CABLE HANDLE	NTS
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4.0 REFERENCE FIGURES

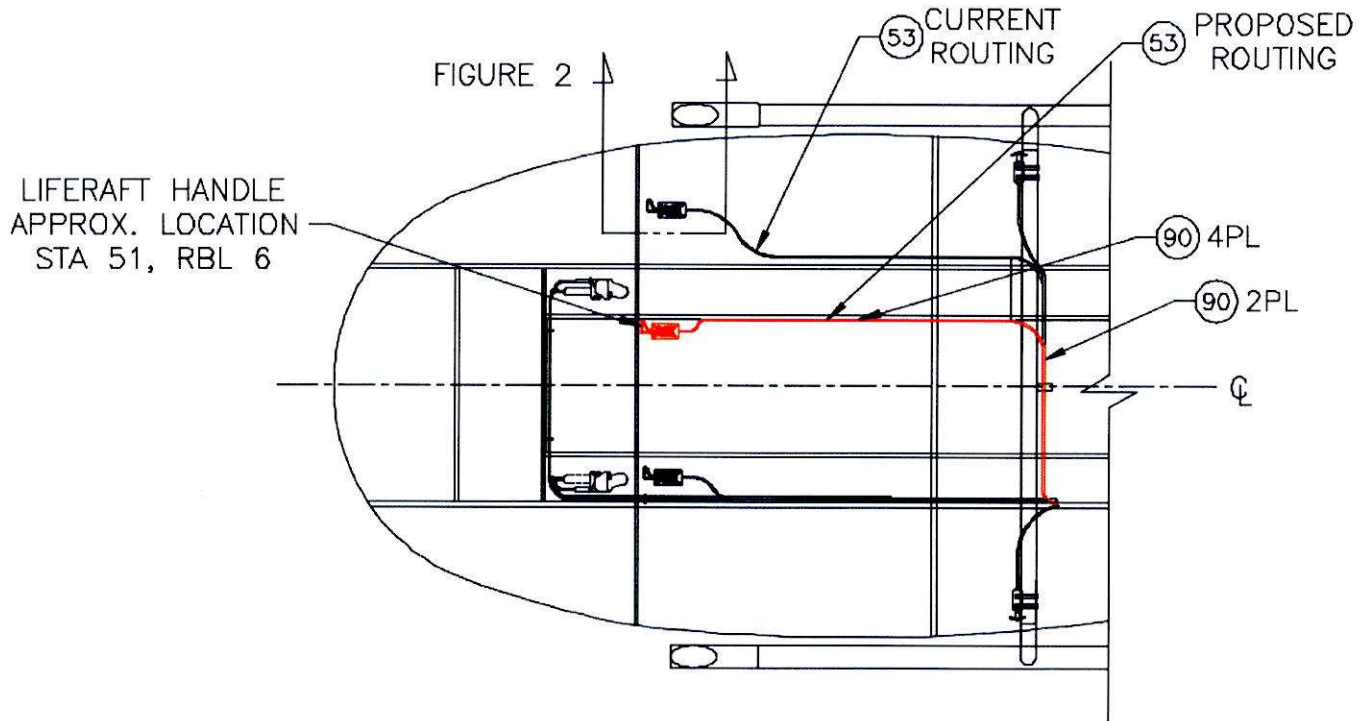


FIGURE 1: NEW HANDLE LOCATION W/ CABLE ROUTING

DESIGN	CZ	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
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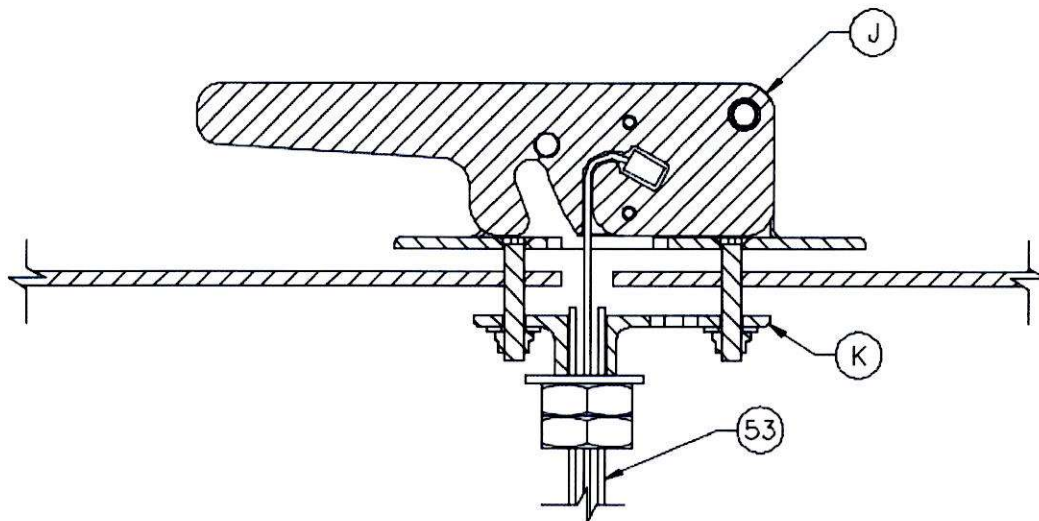


FIGURE 2: 624.9103 (F/N 24) SINGLE LEVER ASSY LOCATION

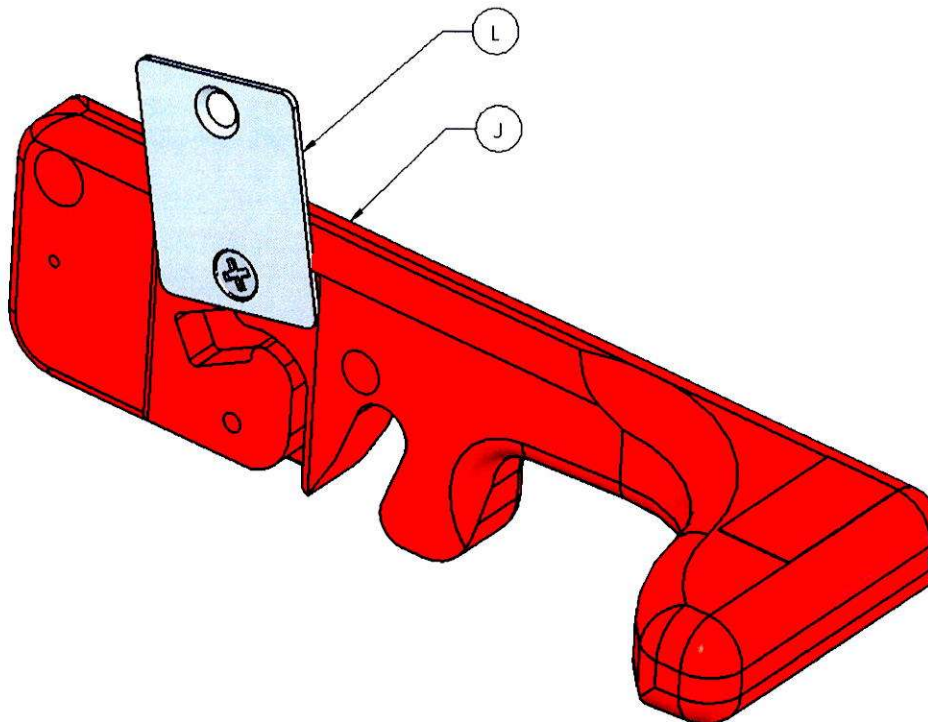


FIGURE 3: CABLE ROUTING THROUGH LEVER ARM GROOVE

F/N	QTY	PART NUMBER	DESCRIPTION
J	REF	624.9111	Lever Arm
K	REF	624.9114	Threaded Base
L	REF	624.9113	Cable Panel

NOTE: For reference. All parts included in 624.9103 Single Lever Assy.

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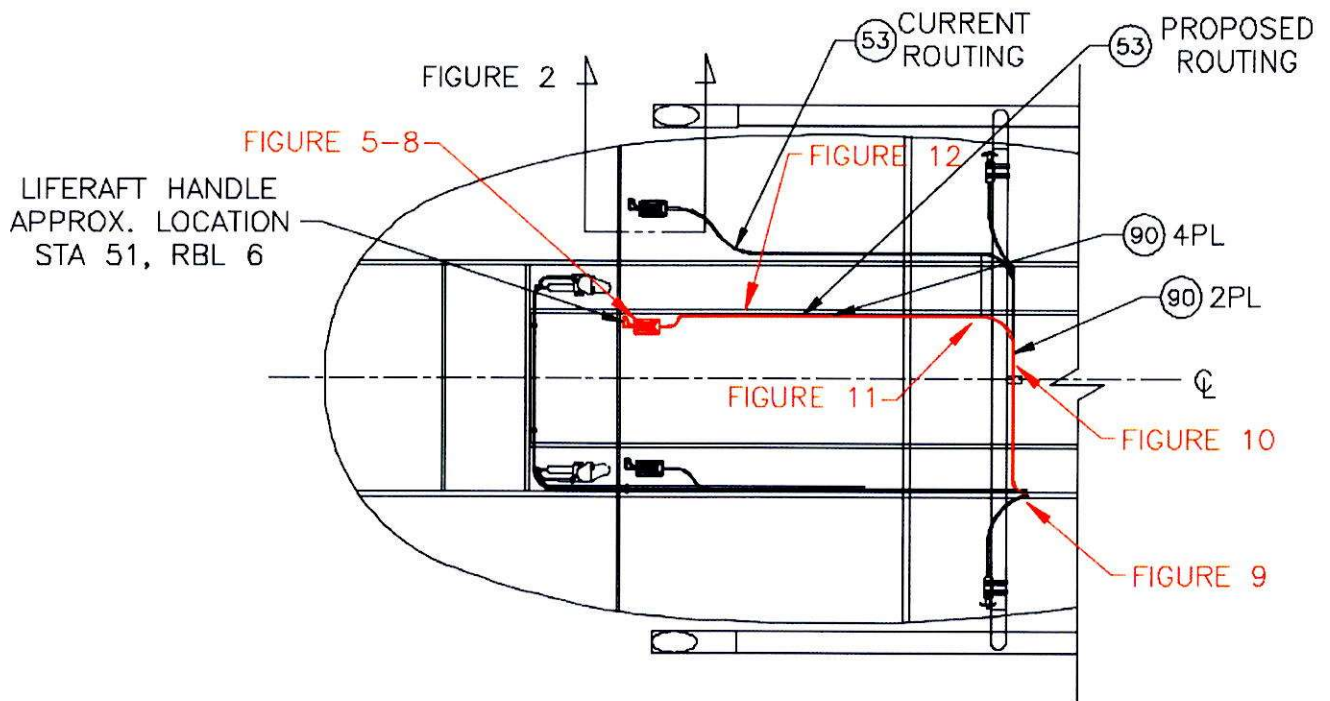


FIGURE 4: NEW CABLE ROUTING LOCATION W/ NEW HANDLE LOCATION
NOTE: FOLLOW FIGURES 5-12 FOR MORE DETAIL

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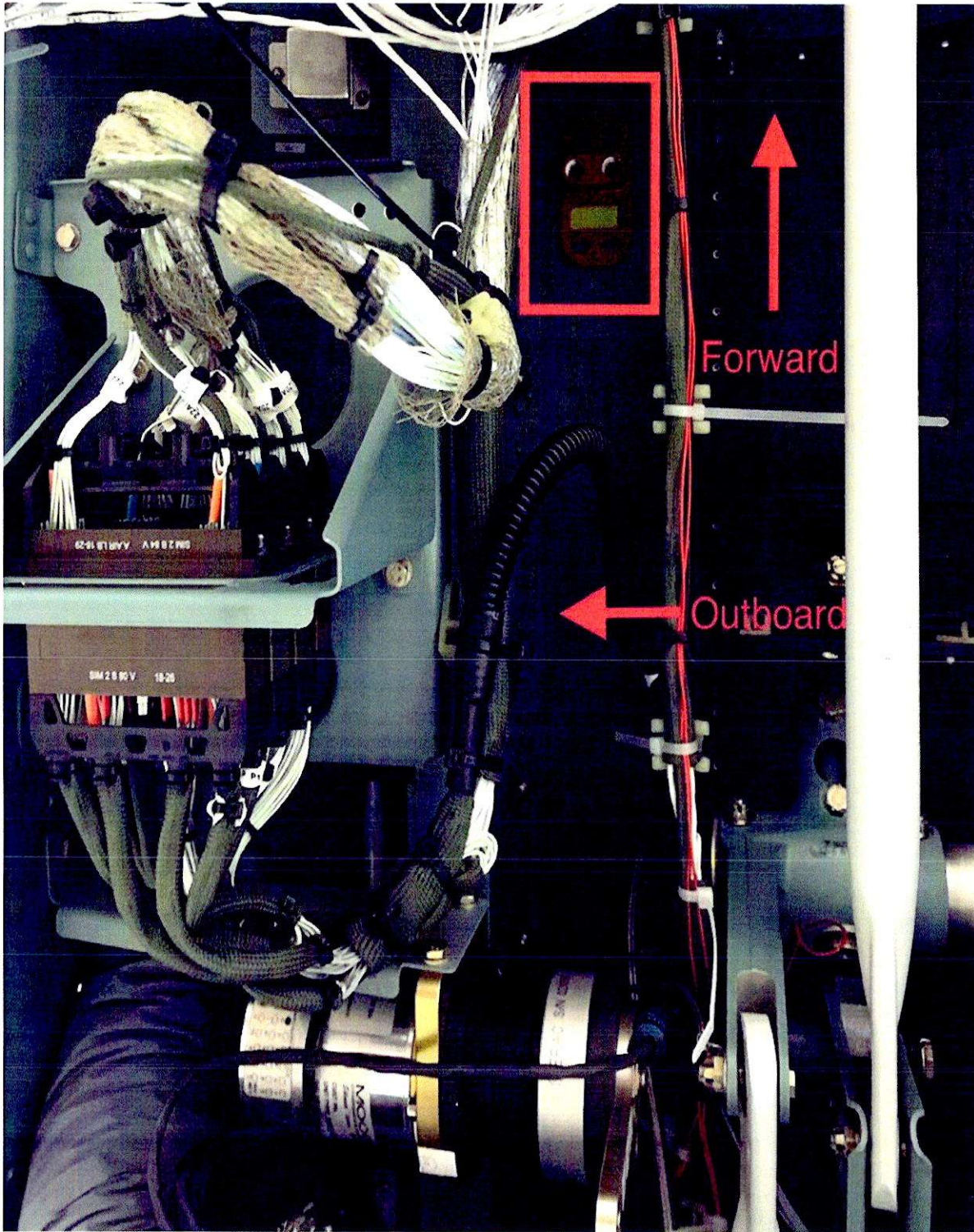


FIGURE 5: UNDER COCKPIT FLOOR LOOKING UP
(REFERENCE FIGURE 4)

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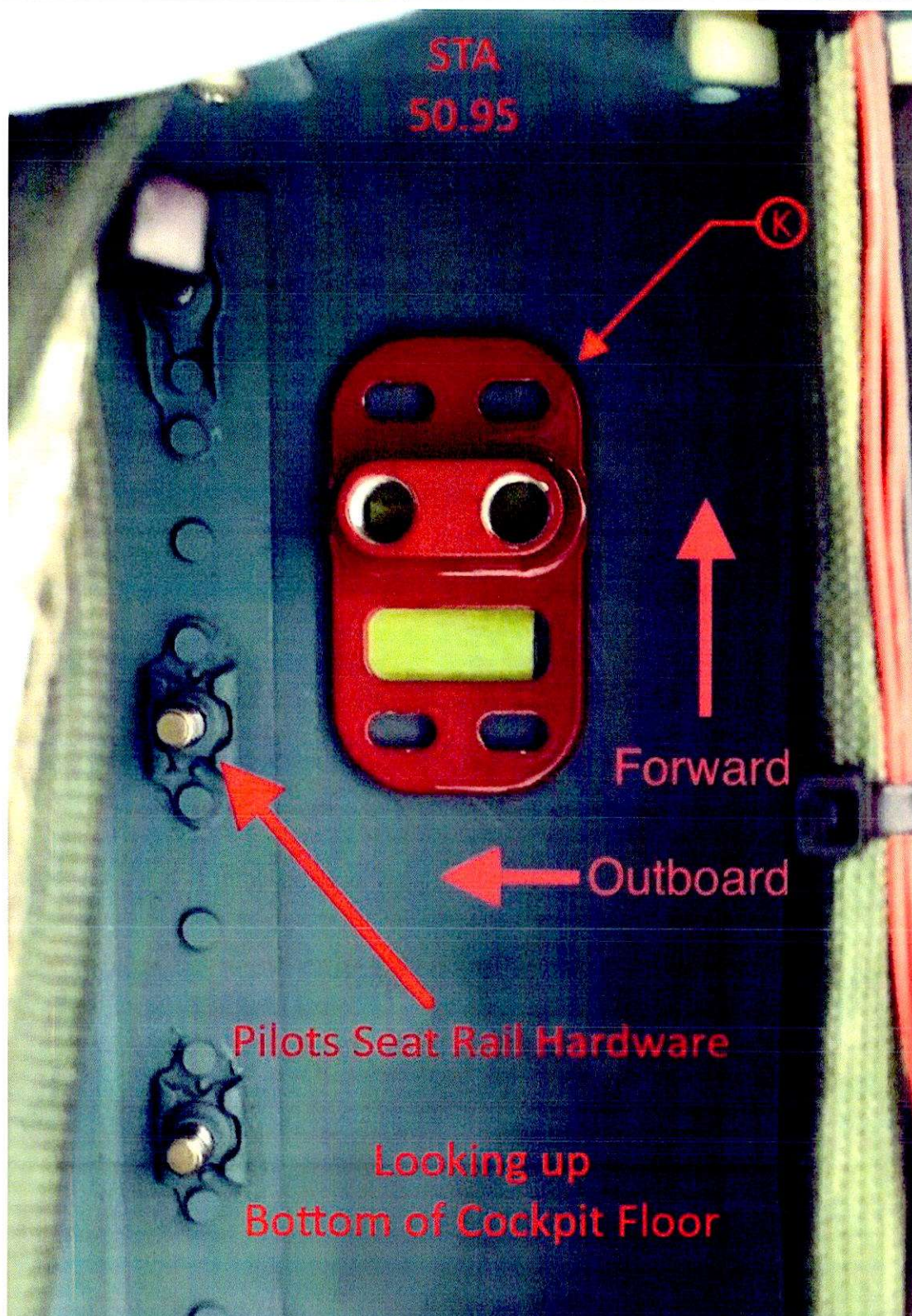


FIGURE 6: UNDER COCKPIT FLOOR LOOKING UP
(REFERENCE FIGURE 4)

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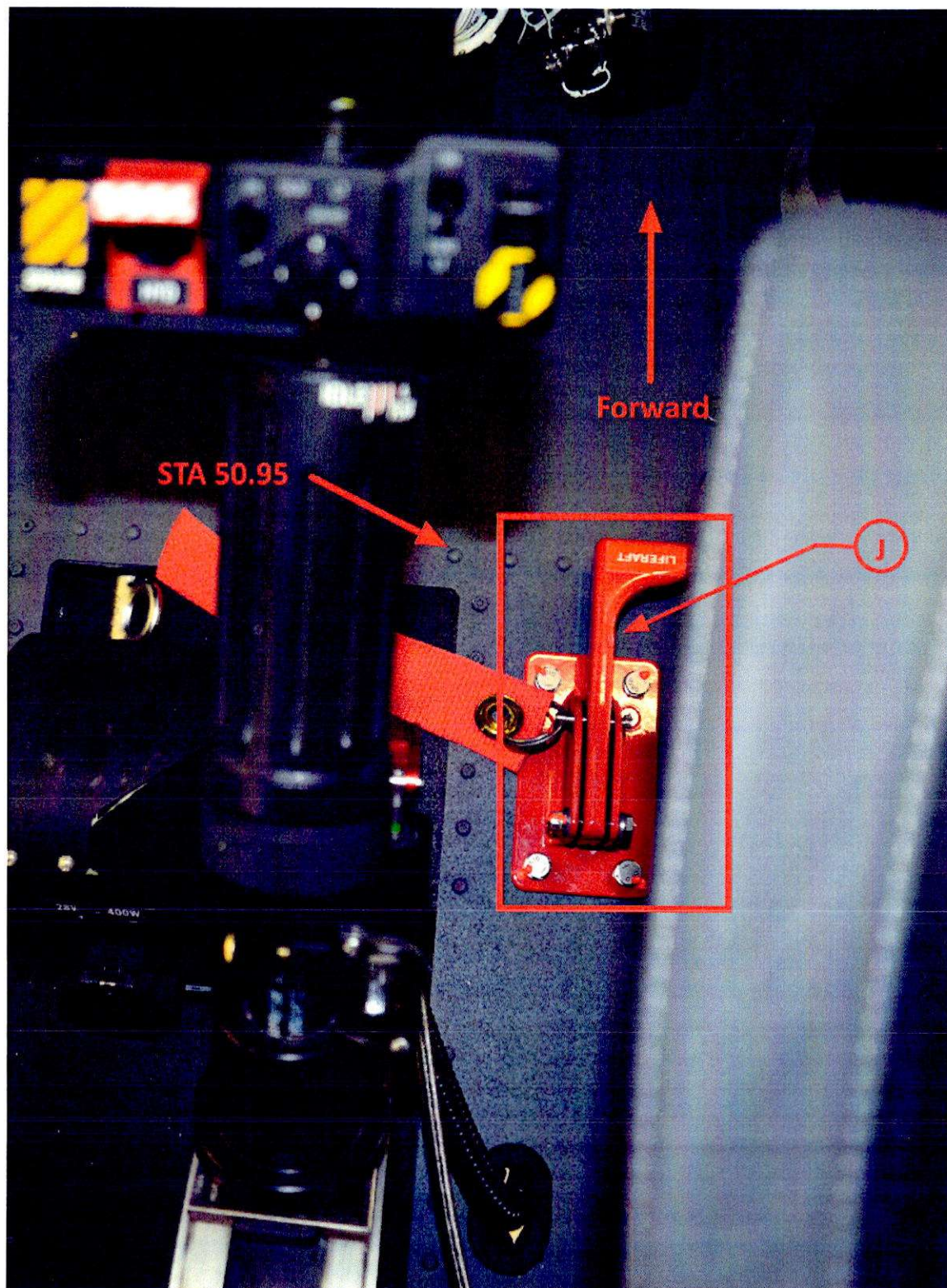


FIGURE 7: HANDLE LOCATION IN COCKPIT
(REFERENCE FIGURE 4)

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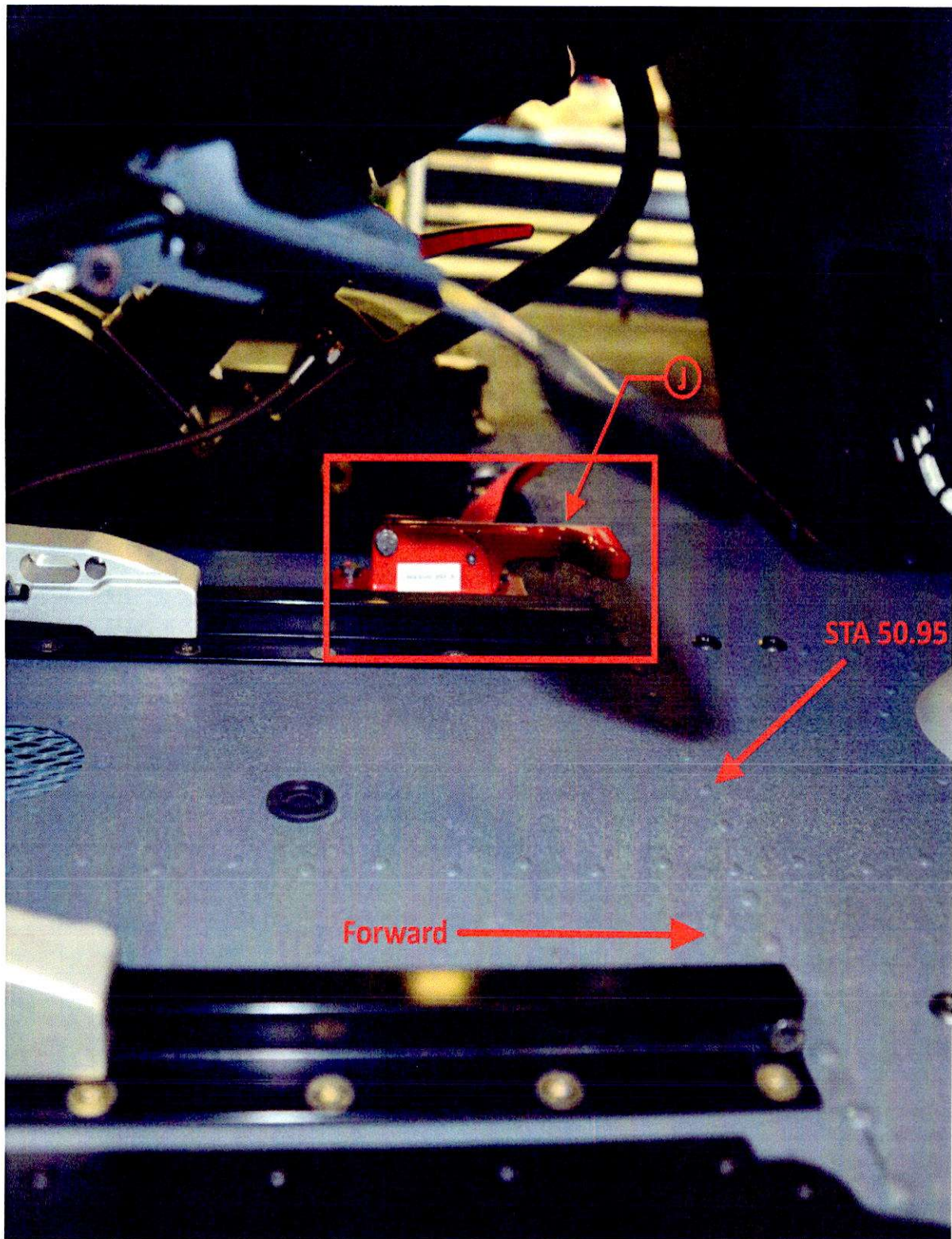


FIGURE 8: HANDLE LOCATION IN COCKPIT
(REFERENCE FIGURE 4)

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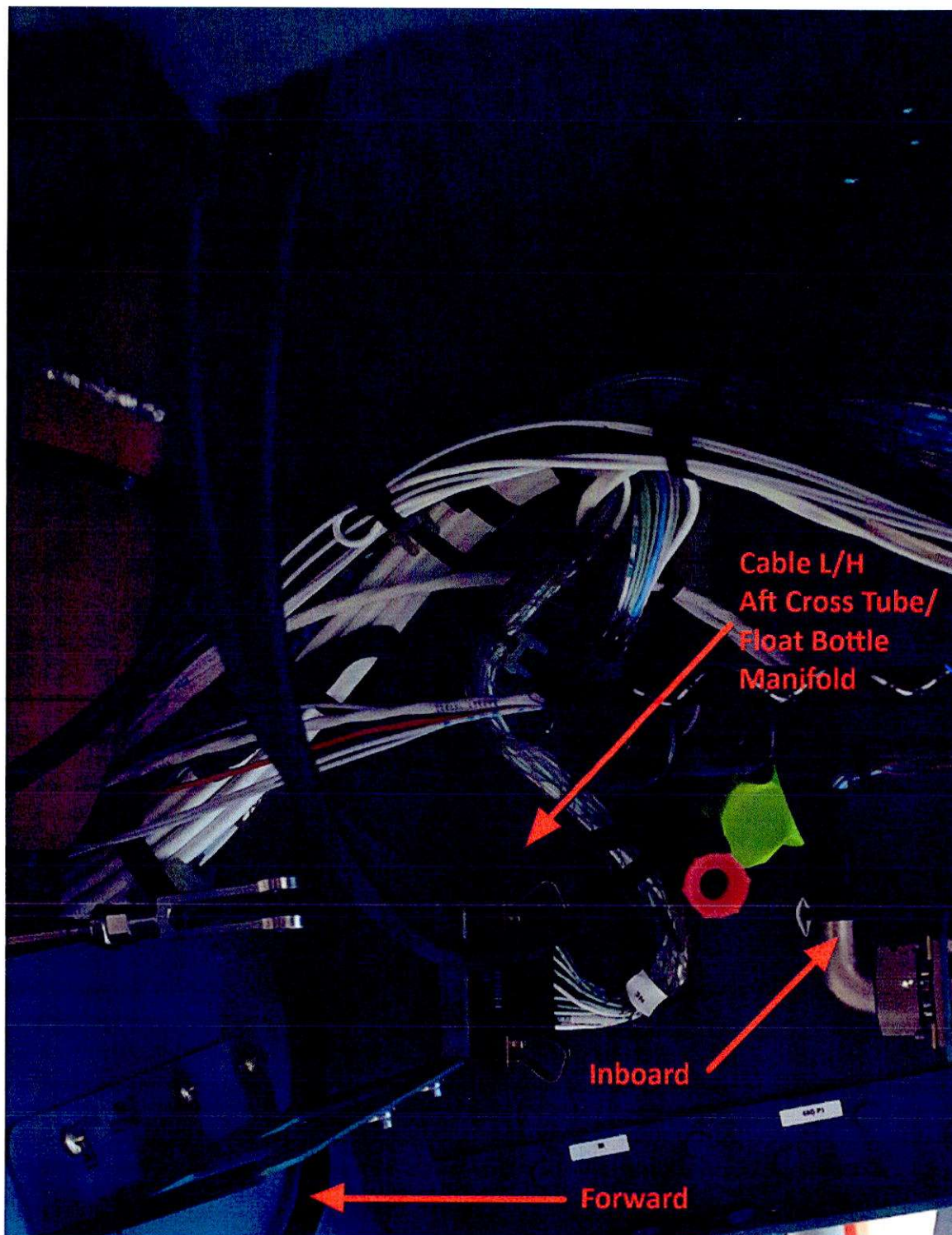


FIGURE 9: CABLE ROUTING
(REFERENCE FIGURE 4)

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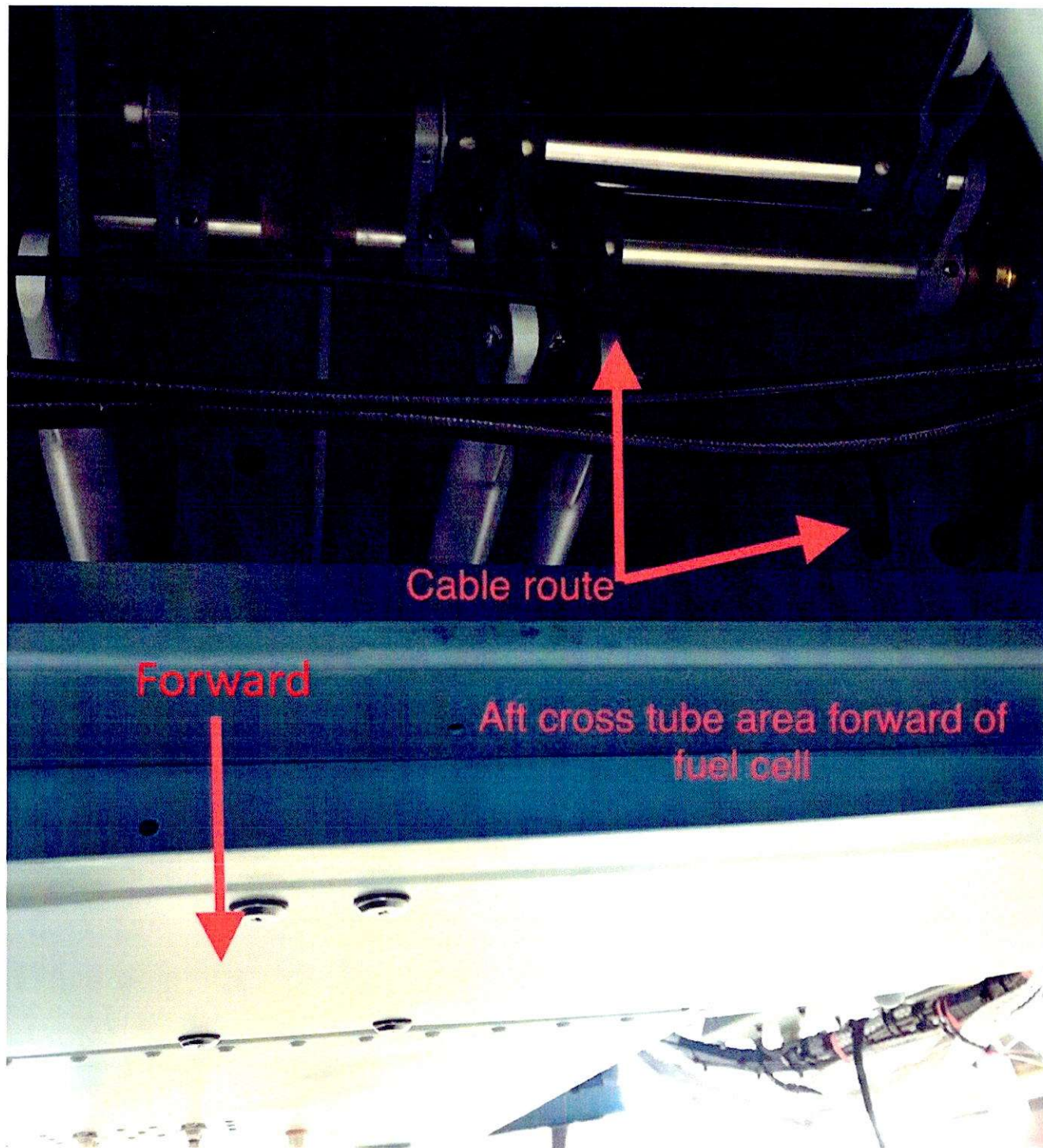


FIGURE 10: CABLE ROUTING
(REFERENCE FIGURE 4)

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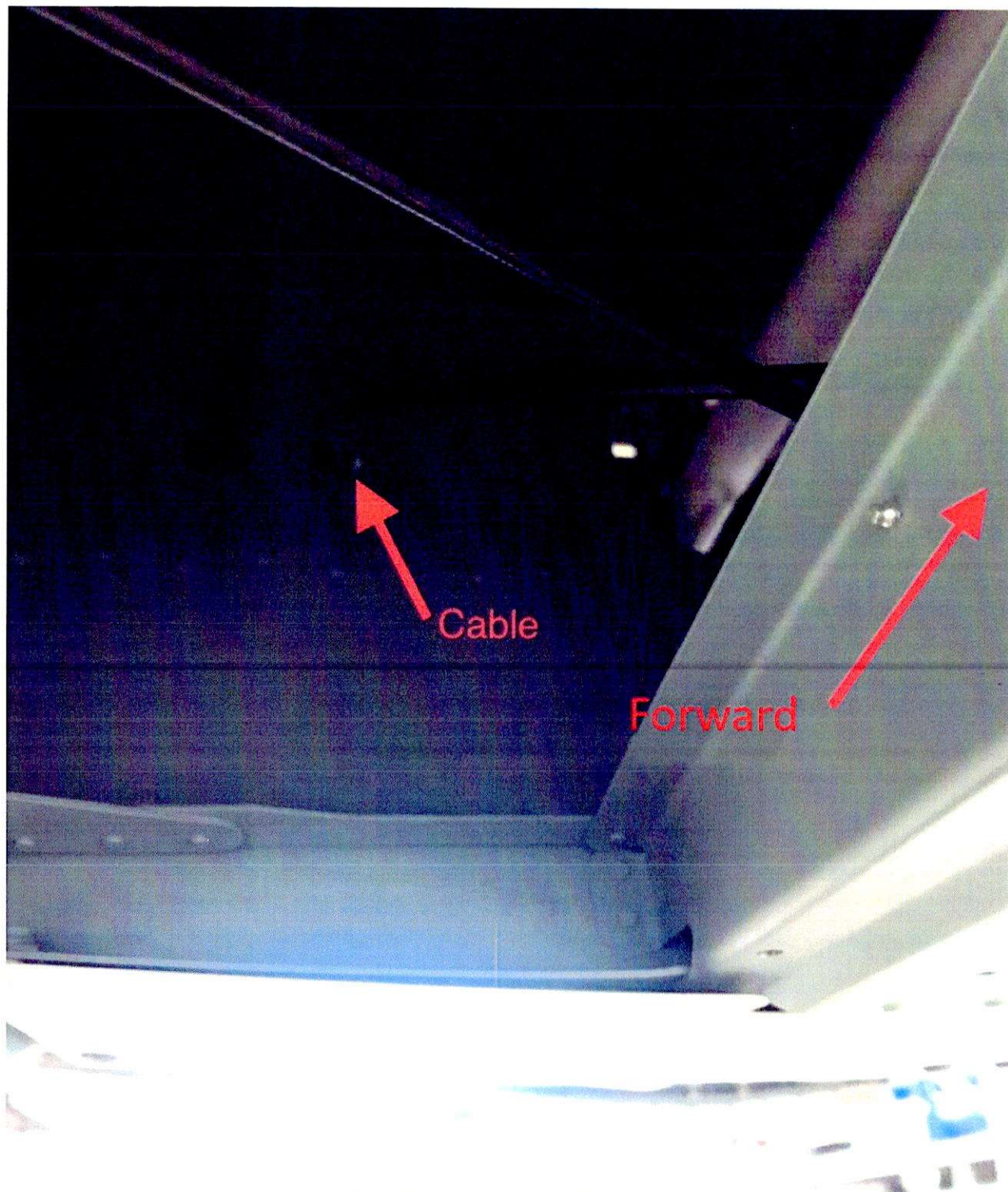


FIGURE 11: CABLE ROUTING
(REFERENCE FIGURE 4)

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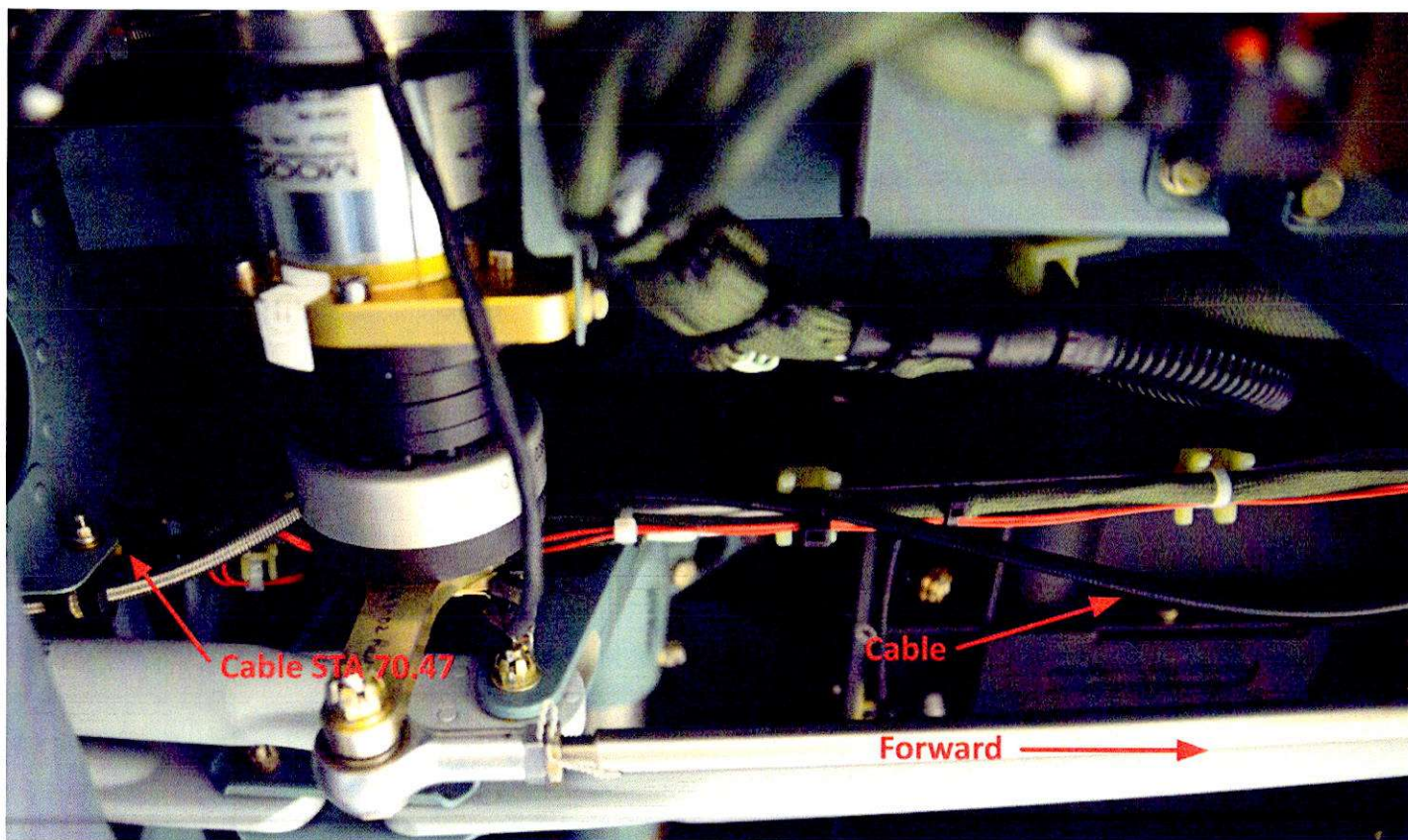


FIGURE 12: CABLE ROUTING
(REFERENCE FIGURE 4)

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